



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4777-1

Job Sheet 190577



Part No: D4777-1

Job Qty: 20 pcs

Part Name: Rod End Bearing



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/11/19

Job Tracking No:

Due Date: 2/25/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV A IPP REV:A 12.10.03 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier	Sign-off
					Setup Hrs	Run Hrs		
100	Purchasing	20 pcs	2/25/19	2/25/19	0.00	0.00	Purchasing - 1	DP MAR 01 2019
13							Purchasing - 2	
9-39							Purchasing - 3	
110	Packaging 2-1 - Receive - B4B	20 pcs	2/25/19	2/25/19	0.00	0.00	Packaging 2 - 1 - B4B	DP MAR 01 2019
							Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	
							Packaging 2 - 4 - B4B	
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	
							Packaging 2 - 9 - B4B	
							Packaging 2 - 10 - B4B	
							Packaging 2 - 11 - B4B	
							Packaging 2 - 12 - B4B	
							Packaging 2 - 13 - B4B	
							Packaging 2 - 14 - B4B	
							Packaging 2 - 15 - B4B	
							Packaging 2 - 16 - B4B	
							Packaging 2 - 17 - B4B	
							Packaging 2 - 18 - B4B	
							Packaging 2 - 19 - B4B	
							Packaging 2 - 20 - B4B	
							Packaging 2 - 21 - B4B	
							Packaging 2 - 22 - B4B	
							Packaging 2 - 23 - B4B	
							Packaging 2 - 24 - B4B	
							Packaging 2 - 25 - B4B	
							Packaging 2 - 26 - B4B	
							Packaging 2 - 27 - B4B	
							Packaging 2 - 28 - B4B	



Container No: S158056



Part: D4777-1

Job No: 190577

Serial No/Batch: S158056

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 03/01/19

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

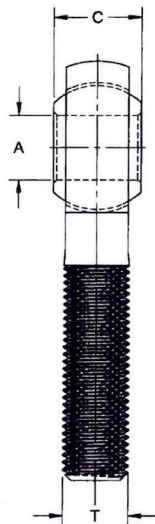
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
120 QC 6	20 pcs	2/25/19	0.00 0.00		QC 6 - 42	
					QC 6 - 9	
					QC 6 - 68	DAS
					QC 6 - 61	MAR 04 2019 68 9-89
130 Packaging 3-1 - Stock - B4B	20 pcs	2/25/19	0.00 0.00		Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	STKS 50 MAR 05 2019
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
140 QC 21 - SA	20 pcs	2/25/19	0.00 0.00		QC 21 - SA - 21	DAS
					QC 21 - SA - 70	21 MAR 06 2019
					QC 21 - SA - 53	9-88

Part Op **100** - (Purchasing) Issue P/O: _____ Purchase Part Number: 59915K274 or CTG
 Descriptions: **110** - (Receive & Inspect for Damage & Mat'l Certs) Ensure certificate of conformity is attached
120 - (QC6- All purchased or subcontracted products)
130 - (Identify as per dwg & Stock Location: _____)
140 - (QC21- Final Inspection - Work Order Release)

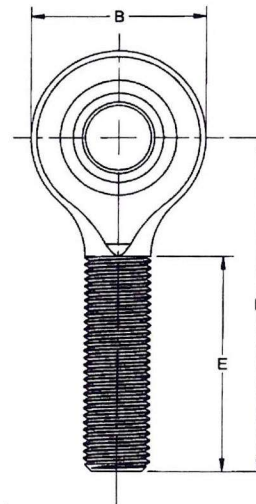
Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
59915K274	Rod End Bearing D4777-1	20 pcs (1 ea)	100-Purchasing	5158055
Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	59915K274	20	0	0
Part Specifications				
Specifications could not be found.				

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SPECIFICATION CONTROL DRAWING



ROD END BEARING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NO. 190577 MWS
19-02-11

DART P/N	HOUSING MATERIAL	A	B	C	D	E	T (THREAD SIZE)	SUGGESTED SUPPLIER	SUGGESTED SUPPLIER P/N
D4777-1	STAINLESS STEEL	Ø0.38	1.00	0.500	1.94	1.25	3/8-24 (RIGHT HAND)	MC MASTER CARR	59915K274

RELEASED
2013-08-14
ND

A	NEW ISSUE	AJS	13.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	6	DRAWING NO.	REV. A
MFG. APPR.	27	D4777	SHEET 1 OF 1
APPROVED	19	TITLE	SCALE
DE APPR.	19	ROD END BEARING	NTS
DATE	13.08.08	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR CONVEYED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



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Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042573



Supplier: MCM001-VU
McMaster-Carr Supply Co.
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO042573

PO Date: 2/11/19

Due Date: 2/15/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

EMAILED
FEB 12 2019

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		3777T12	1/pk	Spring Catch	Firmed	-	2/15/19	10 Ea	0 Ea	10 Ea	\$11.52/Ea	\$115.20
2		52375K36	25 FT	Tubing	Firmed	-	MAR 0 1 2019	25 ft	0 ft	25 ft	\$1.88/ft	\$47.00
3	190577	59915K274		Rod End Bearing D4777-1 AS PER DWG D4777 REV. A	Firmed	-	2/15/19	20 pcs	0 pcs	20 pcs	\$19.05/pcs	\$381.00
4		600.0129	75935A651	VHB Tape 3M VHB Tape 4930 (.025" thick X .5" X 72 yd roll) receive ft	Firmed	-	2/15/19	216 ft	0 ft	216 ft	\$0.8057/ft	\$174.03
Line Item Note 1 ROLL												
5		61165K73	1/pk	Knob M6 X 1 X 19Mm	Firmed	-	2/15/19	12 Ea	0 Ea	12 Ea	\$4.28/Ea	\$51.36
6		8635K168	1 sf/pcs	Oil Resistant Buna-N Rubber Sheet, 12"x12" x1/2" Thk., Durometer 50A	Firmed	-	2/15/19	2 sf	0 sf	2 sf	\$33.55/sf	\$67.10
Line Item Note 2 PCS												

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PURCHASE ORDER

PO042573



Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
7		89895K451	8" per pcs	Smooth-Bore Seamless 304 SS Tubing, 3/8" OD, 0.049" Wall Thickness	Firmed	-	2/15/19	10 Ea	0 Ea	10 Ea	\$8.57/Ea	\$85.70
8		9056K57	6 / FT	6061 Aluminum Round Tube, 1/2" Wall, 5" OD	Firmed	-	2/15/19	12 ft	0 ft	12 ft	\$71.526666/ft	\$858.32
9		9516K613	6 ft long	Tight Tolerance Multipurpose O1 Tool Steel Bar 0.187" Thick x 6.0" Wide	Firmed	-	2/15/19	6 ft	0 ft	6 ft	\$40.58/ft	\$243.48
10		96144A223	25/pk	Screw M8 X 1 X 35 Mm	Firmed	-	2/15/19	25 Ea	0 Ea	25 Ea	\$0.3184/Ea	\$7.96
11		M-316THRD-0.190-32-72	93250A012 6/FT	316 SS 10-32 Threaded Rod x 72" Long : MATERIAL: 316 STAINLESS STEEL THREADED ROD 70 KSI MIN TENSILE STRENGTH receive ft	Firmed	-	2/15/19	12 ft	0 ft	12 ft	\$2.19333/ft	\$26.32
12		RB 92700-10350-041-9	93882A108 50/PK	Steel Hex Head Thread-Forming Screw #4-40 x 3/8" Long	Firmed	-	2/15/19	200 Ea	0 Ea	200 Ea	\$0.1308/Ea	\$26.16
13		90312A271		Steel Wire Rope Lanard 6" Lg. NYLON	Firmed	-	2/15/19	10 Ea	0 Ea	10 Ea	\$2.03/Ea	\$20.30



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Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
14		90905A653	10/pk	SS Split Ring 13/16" OD x 1/8" THK	Firmed	-	2/15/19	20 Ea	0 Ea	20 Ea	\$0.673/Ea	\$13.46
15		93190A373	1/pk	Hex Bolt 316 Stainless Steel Hex Head Screw 1/pack	Firmed	-	2/15/19	10 Ea	0 Ea	10 Ea	\$3.84/Ea	\$38.40
16		8279T14	6 ft long	High Strength 1045 Carbon Steel Rod with Decarb-Free Surface, 1-1/2" Diameter, 6ft Long	Firmed	-	2/15/19	6 ft	0 ft	6 ft	\$26.868333/ft	\$161.21
17		91257A745	5/pk	Bolt	Firmed	-	2/15/19	10 Ea	0 Ea	10 Ea	\$1.622/Ea	\$16.22
18		92620A747	10/pk	Rail Bolt	Firmed	-	2/15/19	10 Ea	0 Ea	10 Ea	\$1.042/Ea	\$10.42
19		97190A040	1/pk	Lifting Bolt Nut	Firmed	-	2/15/19	4 Ea	0 Ea	4 Ea	\$3.46/Ea	\$13.84
20		98338A200	100/pk	Cotter Pin	Firmed	-	2/15/19	100 Ea	0 Ea	100 Ea	\$0.07/Ea	\$7.00
21		20NR-116	98381A472 50/PK	Fine Thread Bolt	Firmed	-	2/15/19	50 Ea	0 Ea	50 Ea	\$0.151/Ea	\$7.55
22		20NR-104	91257A749 10/PK	Rail Funnel Bolts	Firmed	-	2/15/19	10 pcs	0 pcs	10 pcs	\$1.469/pcs	\$14.69
23		20NR-24	9654K519 12/PK	Latch Return Spring	Firmed	-	2/15/19	12 Ea	0 Ea	12 Ea	\$0.916666/Ea	\$11.00
24		20NR-28	91257A751 5/PK	Keeper Bolt	Firmed	-	2/15/19	5 Ea	0 Ea	5 Ea	\$1.934/Ea	\$9.67
25		20NR-45	97135A255 10/PK	Nut 1/2	Firmed	-	2/15/19	20 Ea	0 Ea	20 Ea	\$0.458/Ea	\$9.16
Grand Total:											\$2,416.55	



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PURCHASE ORDER

PO042573



Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 DOCUMENT SPECIAL REQUIREMENTS
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
A049 SUPPLIER AWARENESS

CL

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

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200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042573

Order Placed By
Chantal Lavoie

McMaster-Carr Number
7880666-04

Page 1 of 2

02/12/2019

Line	Product	Ordered	Shipped
1	3777T12 316 Stainless Steel Carabiner, Not for Lifting, 200 lbs. Capacity, 5/16" Thick, 15/16" Narrow-End Inside Width	10 Each	10
2	52375K36 High-Pressure PVC Tubing for Food/Beverage/Dairy, 3/4" ID, 1-1/32" OD, 25 Feet Long	25 Feet	25
3	59915K274 Corrosion-Resistant Ball Joint Rod End, 3/8"-24 Thread, Right Hand	20 Each	20
4	75935A651 Foam Mounting Tape, 3M VHB 4930, 1/2" Wide, 216 Feet Long, White	1 Each	1
5	61165K73 Steel Round Knob with M6 x 1 mm Thread 19mm Long Stud	12 Each	12
6	8635K168 Oil-Resistant Buna-N Rubber Sheet, 12" x 12", 1/2" Thick, 50A Durometer	2 Each	2
7	89895K451 Smooth-Bore Seamless 304 Stainless Steel Tubing, 3/8" OD, 0.049" Wall Thickness, 8" Long	10 Each	10
9	96144A223 Fine-Thread Alloy Steel Socket Head Screw, M8 x 1 mm Thread, 35 mm Long, Packs of 25	1 Pack	1
11	93882A108 Hex Head Thread-Forming Screws for Metal, External Hex/Slotted Drive, 4-40 Thread, 3/8" Long, Packs of 50	4 Packs	4
12	90312A271 Galvanized Steel Lanyard - Not for Lifting, Loop-to-Loop, Coated, 3/64" Diameter, 6" Length	10 Each	10
13	90905A653 316 Stainless Steel Split Ring, 13/16" OD, Packs of 10	2 Packs	2
14	93190A373 Super-Corrosion-Resistant 316 Stainless Steel Hex Head Screw, 3/8"-24 Thread Size, 3" Long, Fully Threaded, Packs of 1	10 Packs	10
16	91257A745 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 3-1/4" Long, Packs of 5	2 Packs	2
17	92620A747 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 1-3/4" Long, Packs of 10	1 Pack	1
18	97190A040 Medium-Strength Steel Locknut for Use with Cotter Pins, Grade 5, 1"-8 Thread Size, Packs of 1	4 Packs	4
19	98338A200 Zinc-Plated Steel Cotter Pins, 1/8" Diameter, 2" Long, Packs of 100	1 Pack	1
20	98381A472 Dowel Pin, Alloy Steel, 1/8" Diameter, 5/8" Long, Packs of 50	1 Pack	1
21	91257A749 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 2-1/4" Long, Packs of 10	1 Pack	1
22	9654K519 Steel Extension Spring with Loop Ends, 2.5" Long, 0.25" OD, 0.023" Wire Diameter, Packs of 12	1 Pack	1

DAS
68
9-89

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042573

Order Placed By
Chantal Lavoie

McMaster-Carr Number
7880666-04

Page 2 of 2

02/12/2019

Line	Product	Ordered	Shipped
23	91257A751 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 3" Long, Partially Threaded, Packs of 5	1 Pack	1
24	97135A255 High-Strength Steel Nylon-Insert Locknut, Grade 8, Zinc Yellow-Chromate Plated, 1/2"-20 Thread Size, Packs of 10	2 Packs	2